



Pedestrian and Bicycle Information Center

resources for changing communities

www.pedbikeinfo.com

**Part of the University of North Carolina
Highway Safety Research Center**

Mission

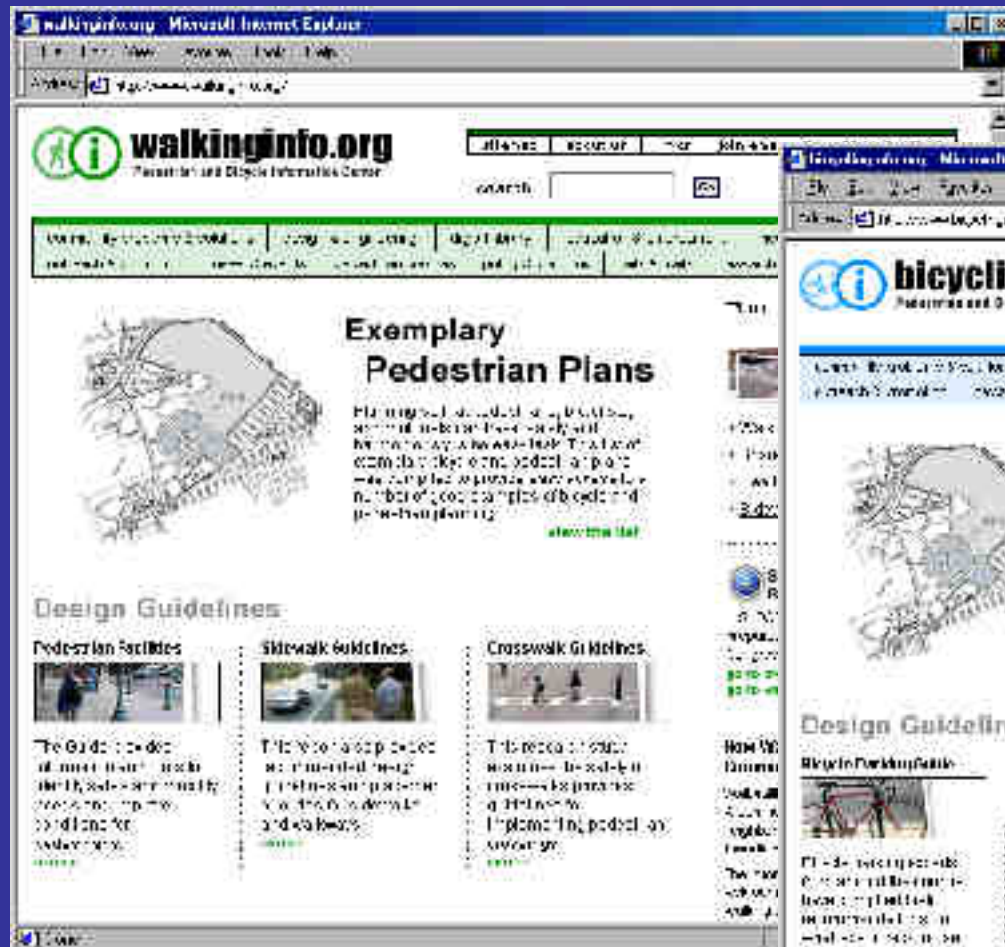
The mission of the Pedestrian and Bicycle Information Center is to improve the quality of life in communities through the increase of safe walking and bicycling as means of transportation and physical activity.

1. Information Clearinghouse
2. Pedestrian and Bicycle Research
3. Technology Transfer
4. Marketing and Promotion



www.walkinginfo.org

www.bicyclinginfo.org



Pedestrian and Bicycle Information Center



Pedestrians have a right to facilities where they can cross the road safely and without unreasonable delay







A photograph showing a sidewalk closure. In the foreground, a white rectangular sign is placed on the pavement. The sign has the words "SIDEWALK" and "CLOSED" in large, bold, black capital letters. Below these, the words "USE OTHER SIDE" are written in a smaller, blue, handwritten-style font. The sign is flanked by several bright orange traffic cones. A red caution tape with the word "CAUTION" repeated in black is strung across the sidewalk, held up by the cones and a white utility pole. The background features a green hedge and a building with large windows. The scene is set on a paved sidewalk next to a road with a white crosswalk line.

SIDEWALK
CLOSED
USE OTHER SIDE



SIDEWALK
CLOSED

7-ELEVEN
Jiffy Lube
Insurance
MR GYM







TRAFFIC CALMING

FATALITIES BY SPEED

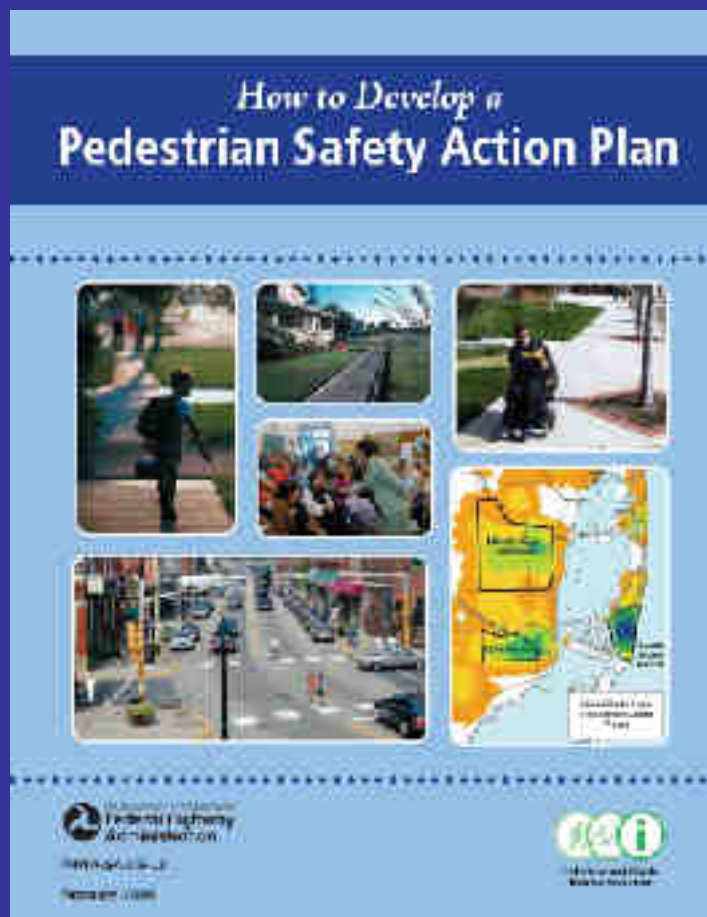
Percent fatal to Pedestrians



There is compelling evidence that speeds inside
should not exceed 30 KPH (20 mph)



"How to Develop a Pedestrian Safety Action Plan " Guide



- Final Document Complete and posted on:
www.walkinginfo.org

Pedestrian Safety Training Currently Being Taught in:

Arizona

New Mexico

New York

Georgia

New Jersey

Pennsylvania

Florida

North Carolina

California

Texas

Michigan

Hawaii

Illinois

Pedestrian Strategies

Objective 1 - Reduce Vehicle Speed

- Implement Road Narrowing Measures
- Install Traffic Calming — Road Sections
- Install Traffic Calming — Intersection
- Provide School Route Improvements









Pedestrian Strategies

Objective 2 - Improve Sight Distance and/or Visibility Between Motor Vehicles & Pedestrians

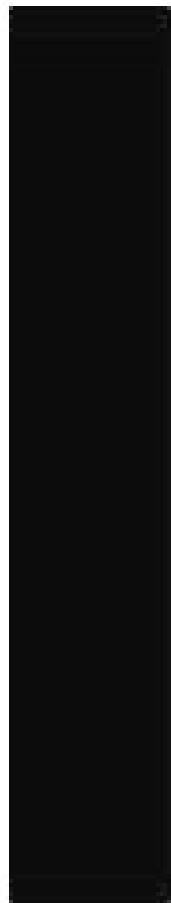
- Implement Lighting/Crosswalk Illumination

Measures

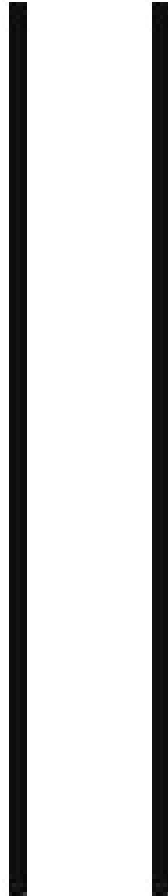
- Provide Crosswalk Enhancements
- Improve Reflectorization/Conspicuity of

Pedestrians

Solid



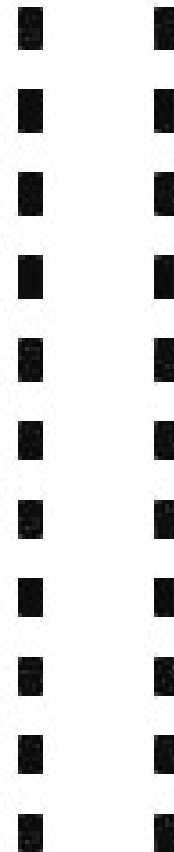
Standard



Continental



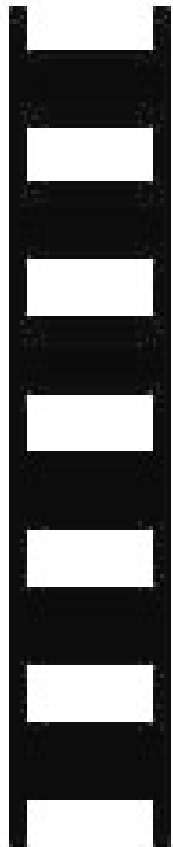
Dashed



Zebra

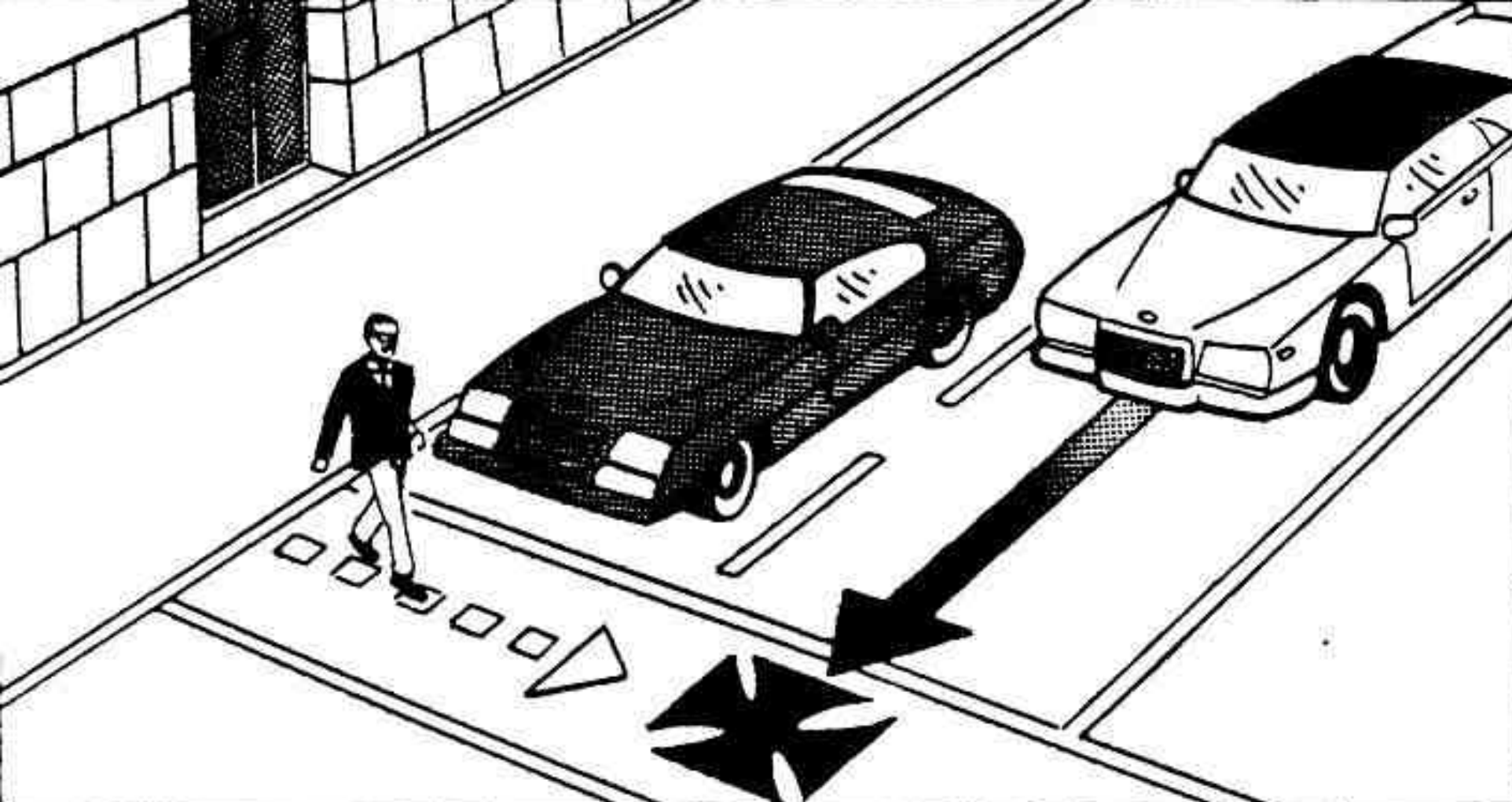


Ladder



Examples of different crosswalk marking patterns

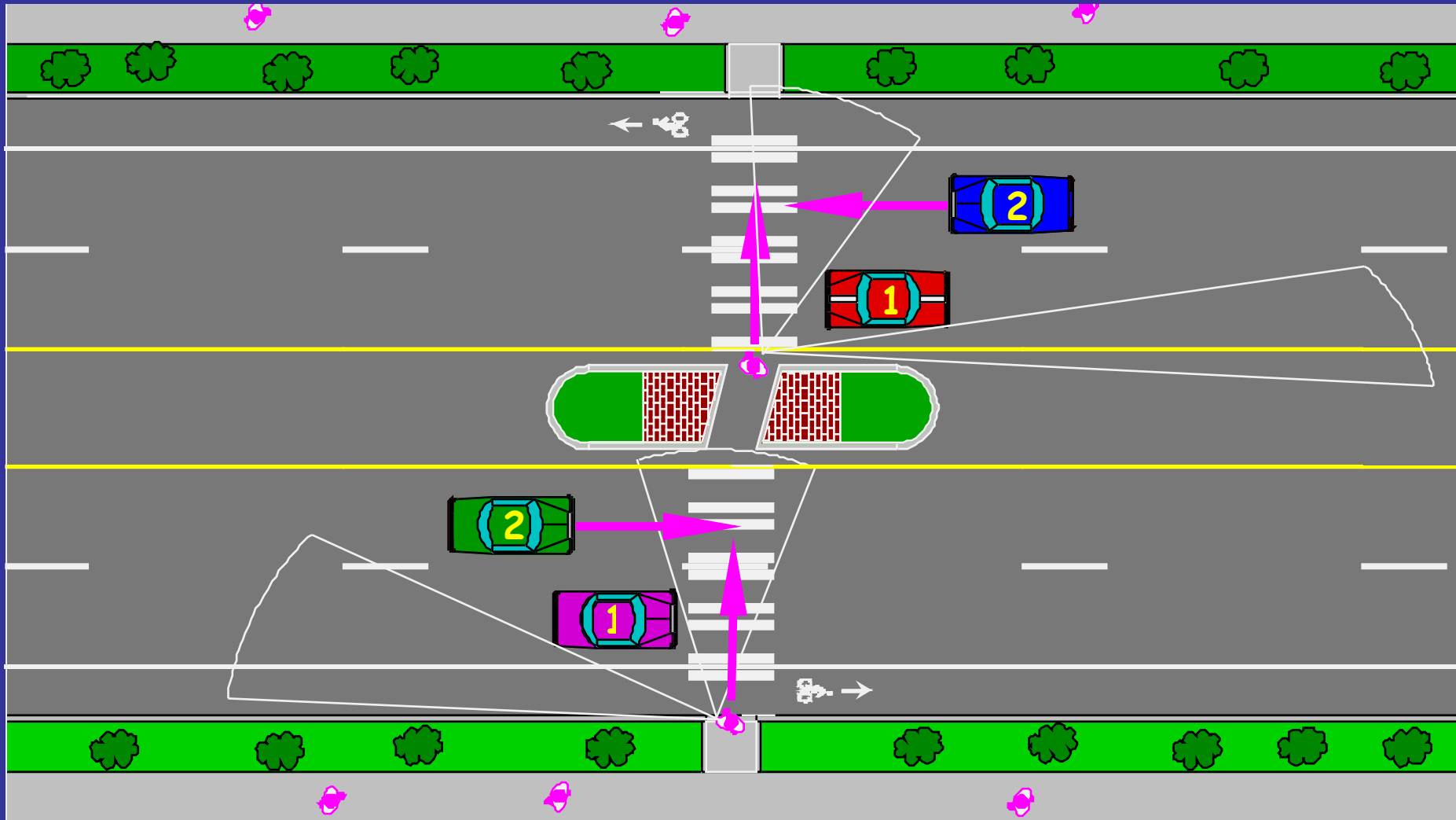




First car stops for pedestrian, but too close, masking visibility for driver in 2nd lane

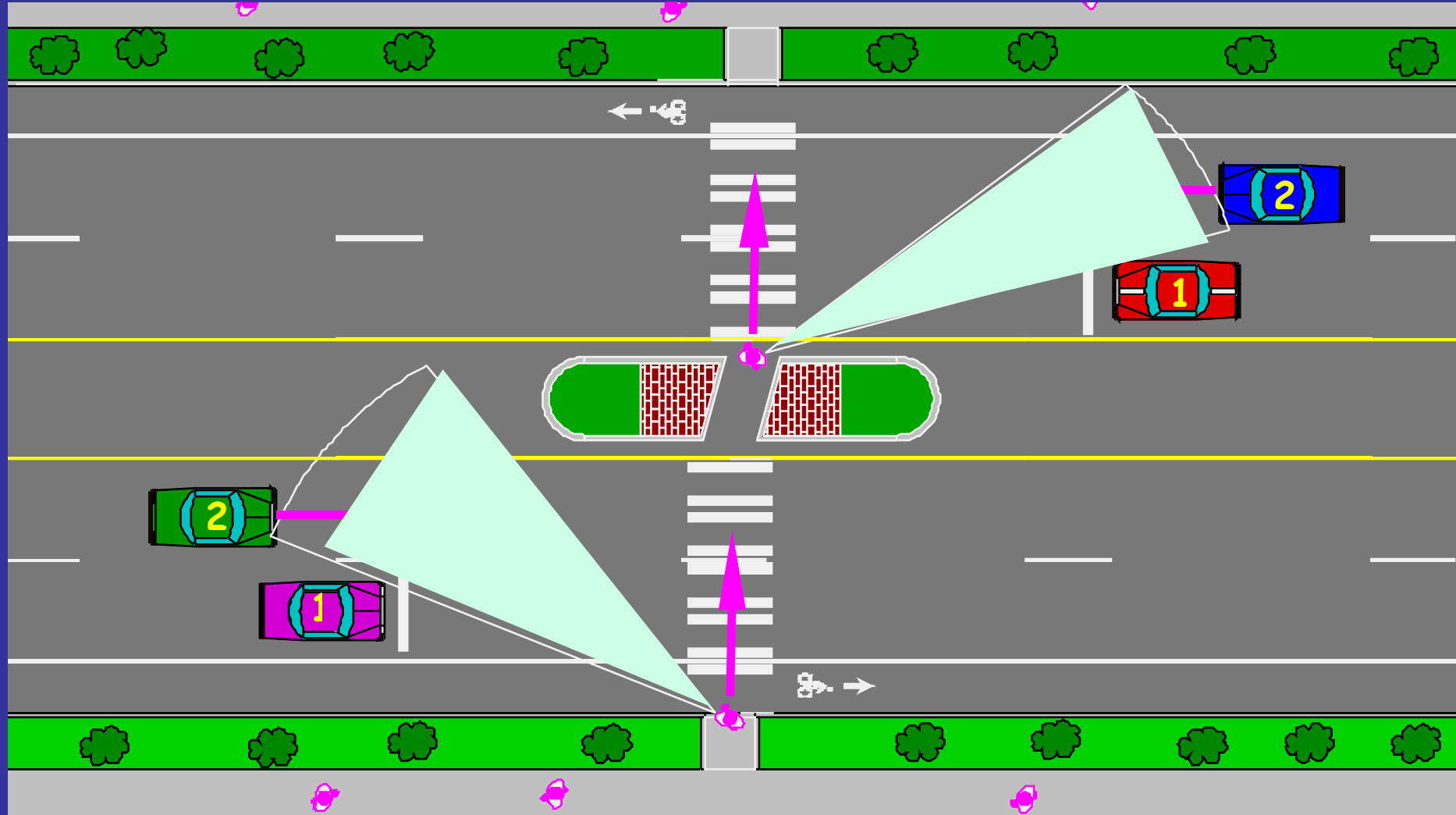


Advance Stop Bar - helps prevent Multiple Threat crash



Problem: Car 1 stops to let pedestrian cross; car 1 masks car 2, which doesn't stop, hits pedestrian at high speed.

Advance Stop Bar - helps prevent Multiple Threat crash



Solution: place advance stop bar, so car 1 stops further back; car 1 no longer masks car 2, which can be seen by pedestrian.



Pedestrian Strategies

Objective 3 - Reduce Pedestrian Exposure to Vehicular Traffic

- Provide Vehicle Restriction/Diversion Measures
- Construct Pedestrian Refuge Islands & Raised Medians
- Install or Upgrade Traffic & Pedestrian Signals
- Provide Sidewalk/Walkways & Curb Ramps
- Install Overpass/Underpass





Pedestrian Strategies

Objective: Design Safer Intersections

- Provide Traffic signal options
- Test innovative signal strategies





On some multi-lane roads, traffic and pedestrian signals are needed to better accommodate ped. crossings

Pedestrian countdown signal





New animated eyes feature



**SPEED
SENSITIVE
SIGNAL**





"I tell you, Ed, this new technology is starting to really spook me out."

Pedestrian Strategies

Objective: Separate pedestrians from motor vehicle traffic

- Provide well-designed sidewalks and walkways
- Provide grade separation









Pedestrian Strategies

Objective 4 - Improve Pedestrian and Motorist Safety Awareness and Behavior

- Provide Education, Outreach, and Training
- Implement Enforcement Campaigns





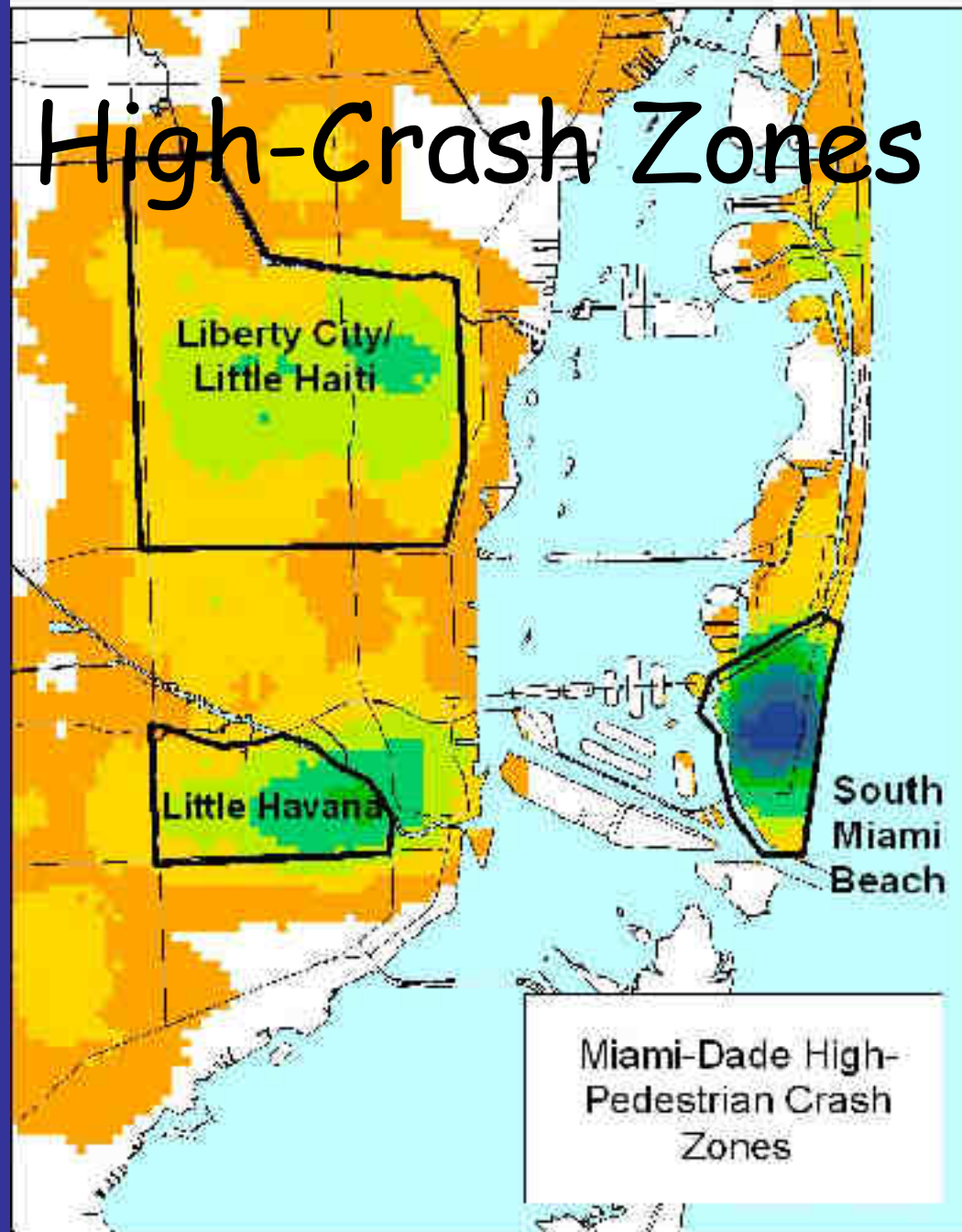
Examples from across the State

- Some positive measures for pedestrian safety:
 - Hendersonville Main Street Redesign
 - Asheville Wall Street Redesign
 - Charlotte pedestrian treatments and new facility guidelines
 - Wilmington Front St.

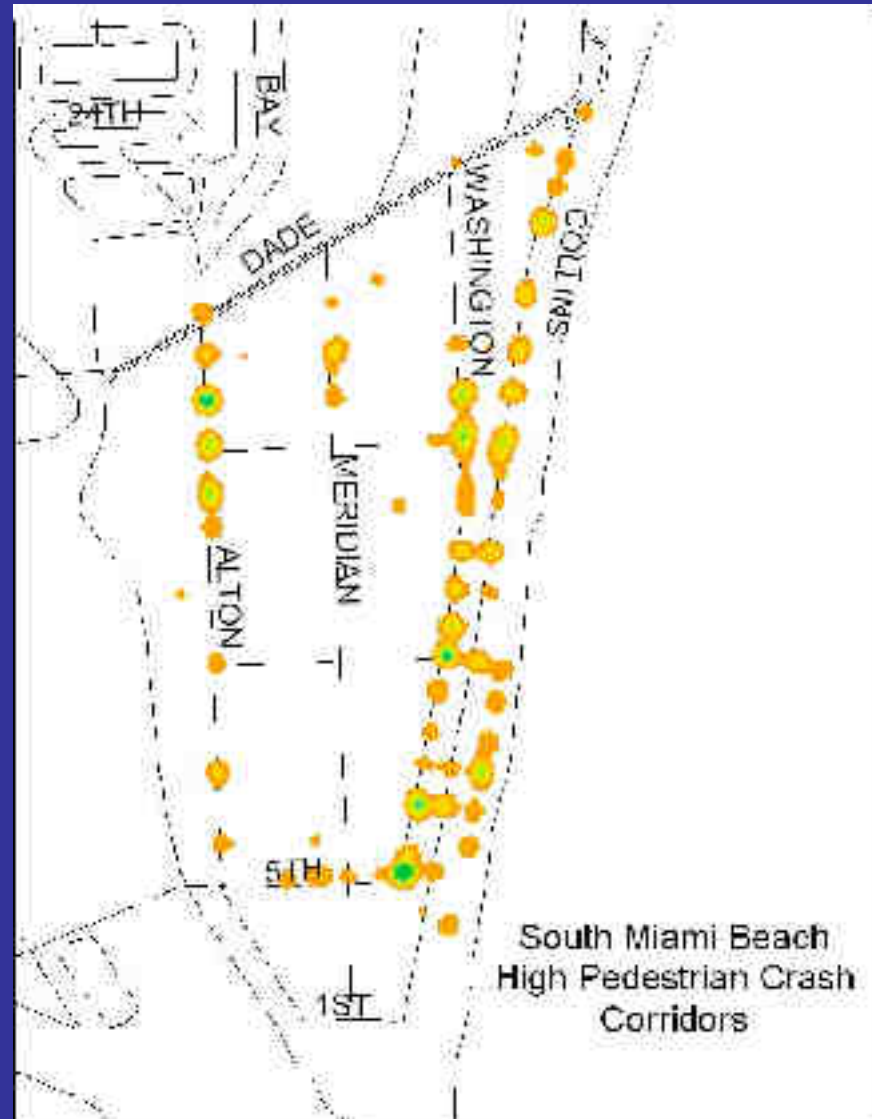


Wall Street, Asheville, NC

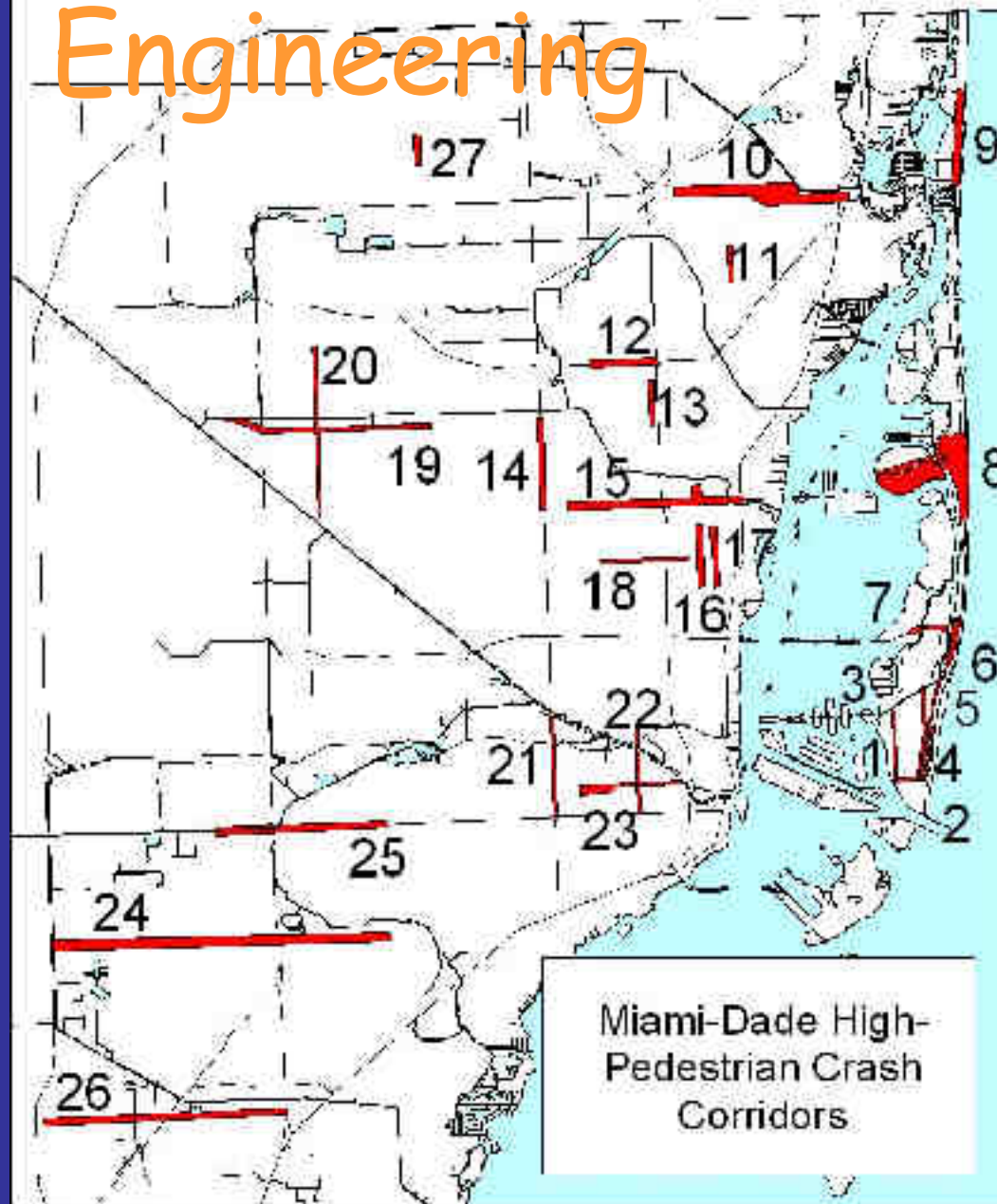
High-Crash Zones



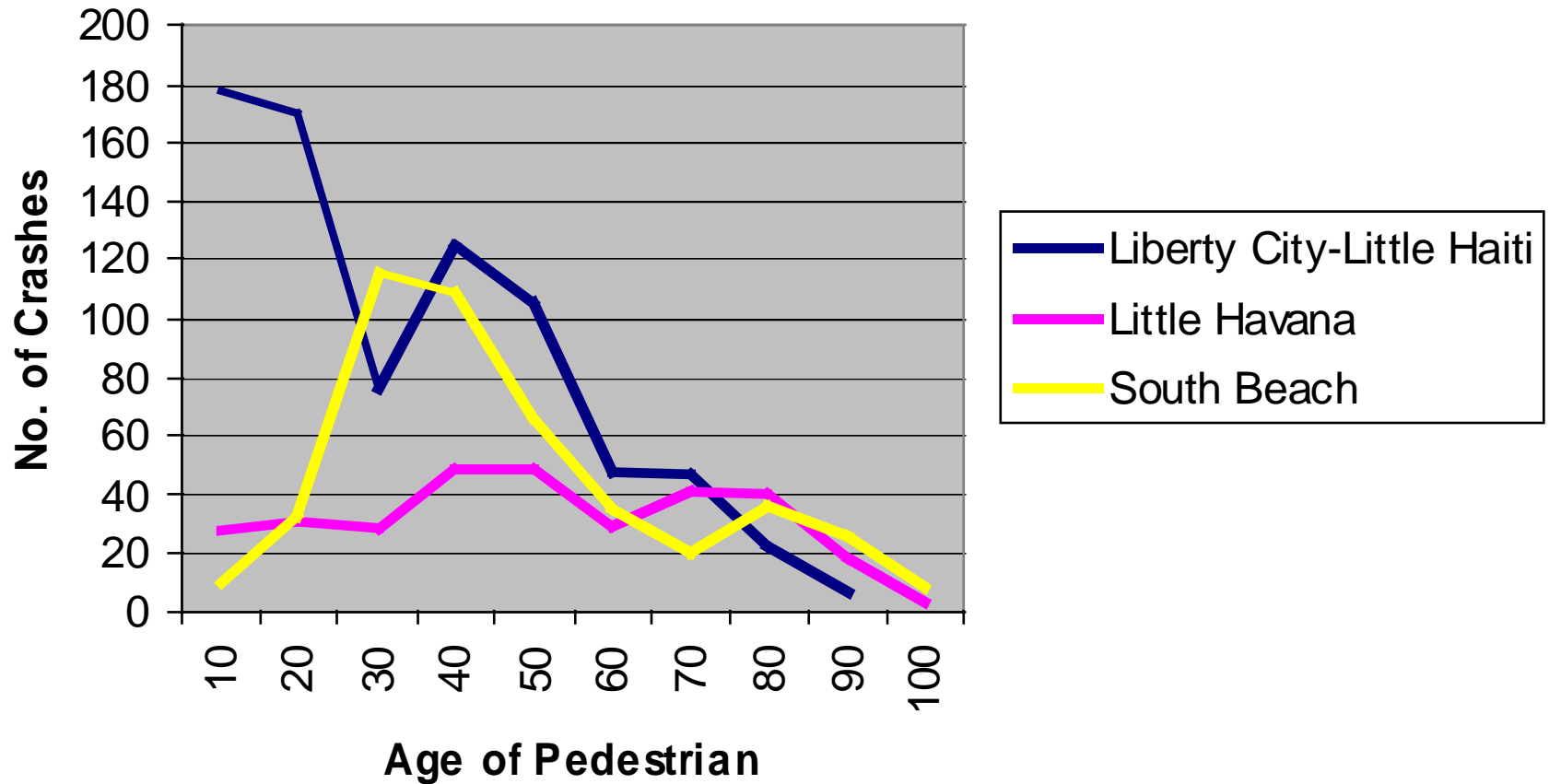
Engineering



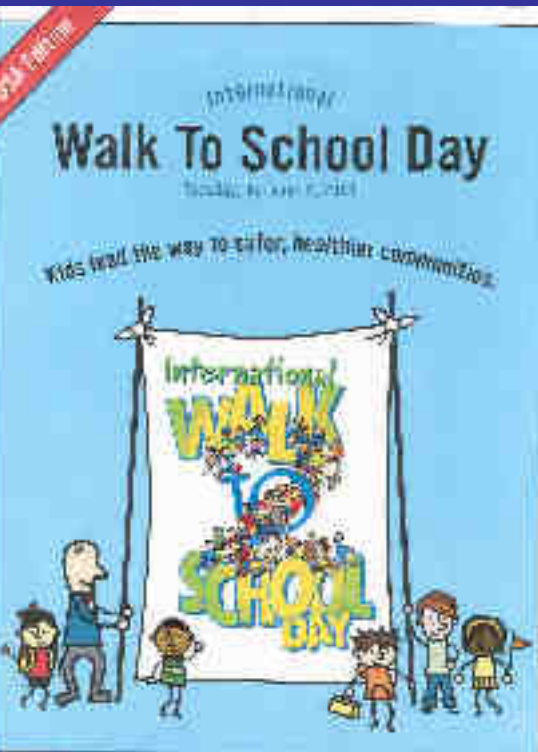
Engineering



High-Crash Zone Characteristics



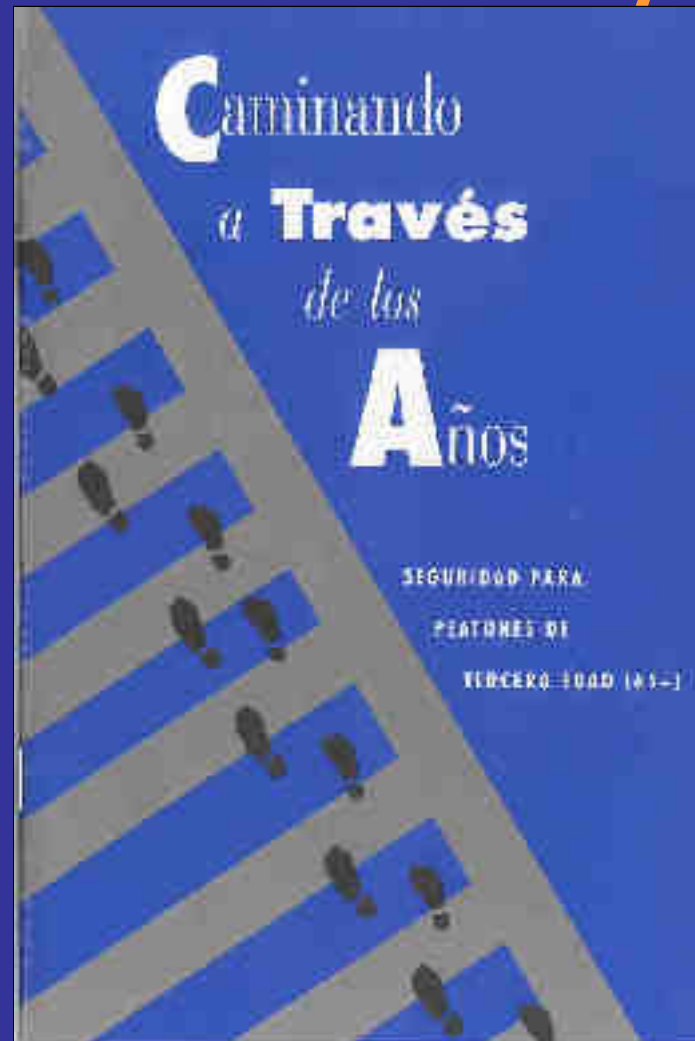
Education: Children



Education: Transit Riders



Education: The Elderly



Enforcement



8617X SIGNAGE OUTLINES 12/06/07

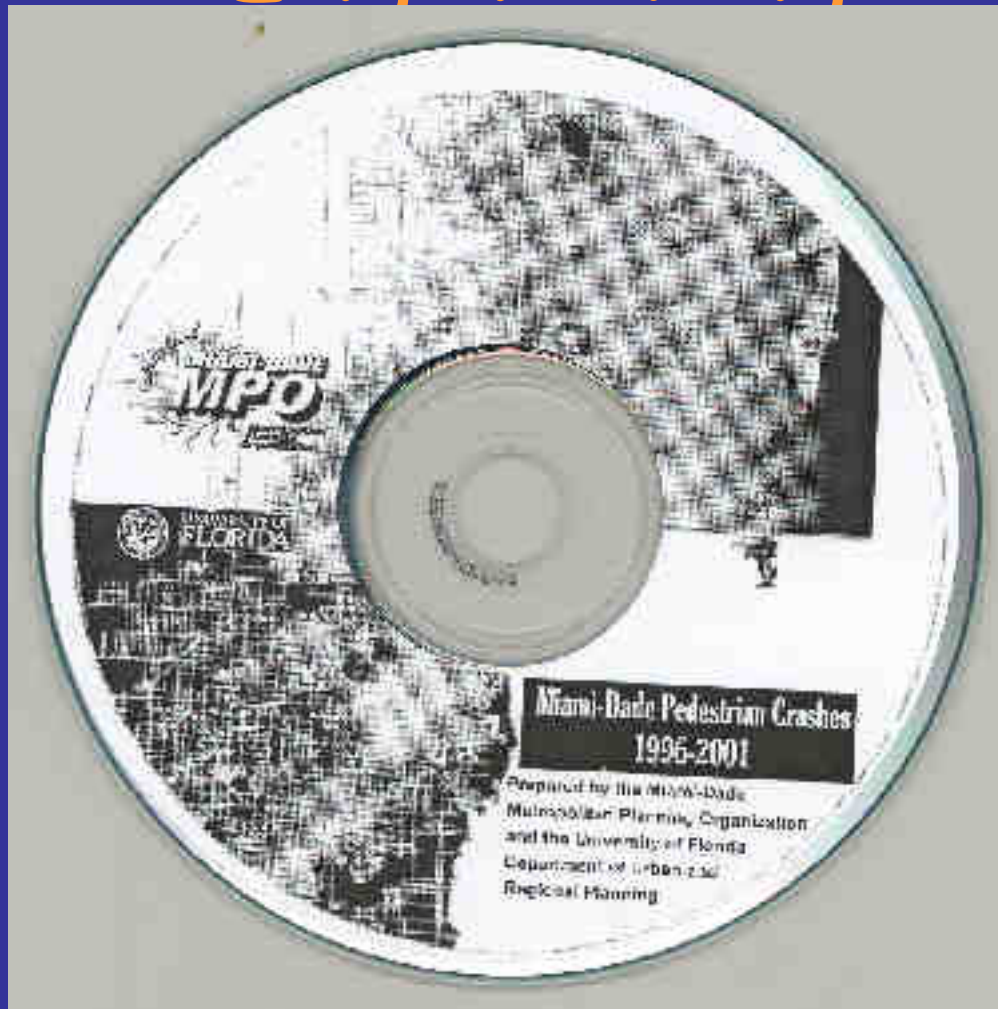


8617X SIGNAGE OUTLINES 12/06/07

Engineering



Engineering



Results: Pedestrian Fatalities and Injuries

